

Digital Video Recorder

Quick Guide

This manual is to help you set up your DVR in a basic manner, and playback or remote access your DVR. Please see the User Manual on included CD for more detailed instructions.

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1. Important Safeguards and Warnings

- Don't place heavy objects on the DVR. Avoid dropping or striking the DVR.
- Keep the DVR in a normal room environment, between 0°C ~ +45°C, away from any direct heat source like direct sun light. Please do not install the DVR in a damp, smoky, or dusty environment. Do not let solids or liquids fall into or infiltrate the DVR.
- Please install the DVR on a flat surface.
- Use within the power and surge protection rating.
- Don't disassemble or try to repair the DVR by yourself. Attempts to do so will void manufacturer's warranty!

2. Package Contents

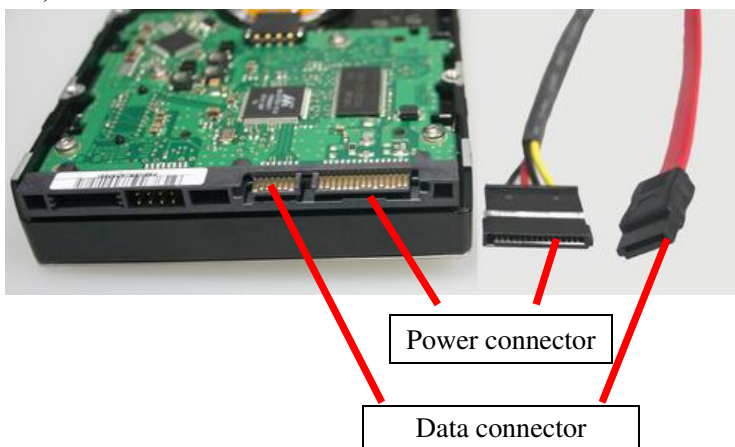
Your DVR package should come with the following items:

- DVR
- Remote Control
- Power Adapter and Power Cord
- CD (with full manual and DVR software)
- This Quick Guide
- Mouse (optional)
- Installed Hard Drive (optional)

3. Hard Disk Installation if not pre-installed

Your HDD needs to be installed before you can start recording. Some DVRs come with pre-installed hard drive. If so, please check that the HDD has been formatted ([7.4 HDD Management](#)). Otherwise, please install HDD as following:

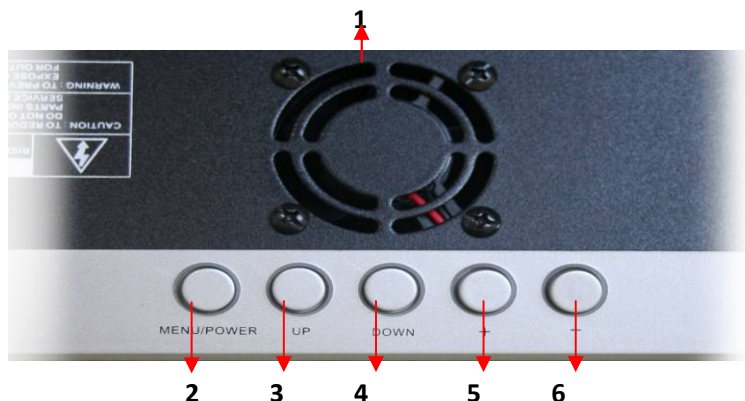
- 1) Open case by removing screws from back and sides of DVR.
- 2) Please connect the HDD in the standard way, screwing the HDD into the HDD brackets or DVR base. All necessary cables are delivered with the DVR. Use instructions that came with the hard drive for exact wiring and installation. Please connect the power cable to the appropriate socket, and the data cable to its corresponding connector.
- 3) Close case and re-screw the screws to secure.



Please format the HDD before first use. ([9.4 HDD Management](#)).

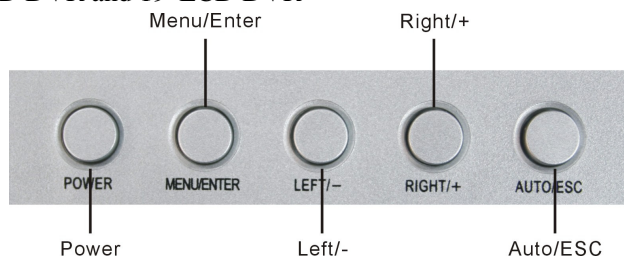
4. Top Panel

(a) Top panel for 10" LCD DVR



1. **Cooling Fan**
2. **Menu/Power:** Turn on / off the LCD monitor. When press the key over 3 seconds, it will turn off. If you push the key again, it will be turn on. When the LCD monitor is on, press this button to configure LCD monitor
3. **UP:** Move up cursor to the item you want to configure
4. **Down:** Move down cursor to the item you want to configure
5. **“+”:** Increase value.
6. **“-”:** Reduce value

(b) Top panel for 15" LCD DVR and 19" LCD DVR



Function of the top panel:

Function	Description
POWER	Turn on / off the LCD monitor. When press the key over 3 seconds, it will turn off. If you push the key second time on 19" device, it will display the image from VGA Input Connector.
MENU/ENTER	Press the key to configure of the LCD monitor.
RIGHT/+	Move the prompt of the parameters on the screen or increase value.
LEFT/-	Move the prompt of the parameters on the screen or reduce value.
AUTO/ESC	Press the key to exit the configuration of the LCD monitor.

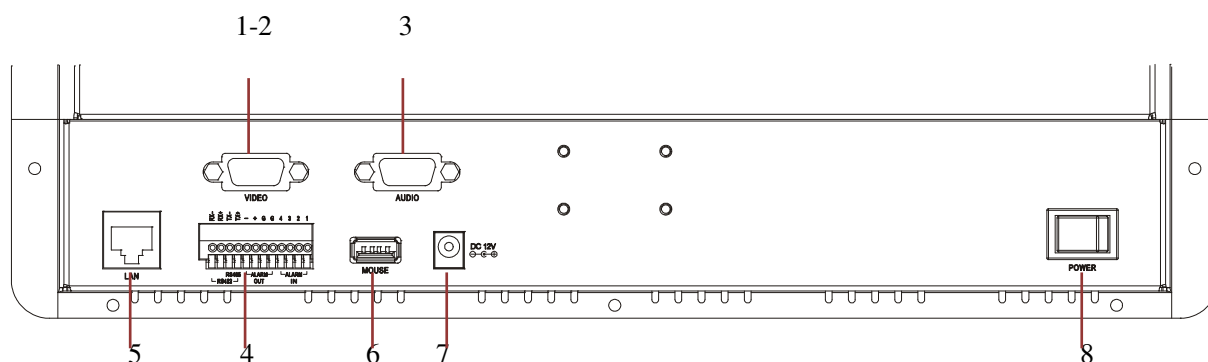
5. Front Panel (Please take actual machine mode as quasi)

Type	Name	Introduction
Control Button	▲▼◀▶	Use arrow buttons to move among the menu items.
Enter	↵	Press Enter (↵) to confirm your choice. On live view the [↵] button is used as PTZ control key.
Menu/Exit	⏏ (MENU/ESC)	Access tool bar/Hide tool bar/Exit menu/Exit sub menu

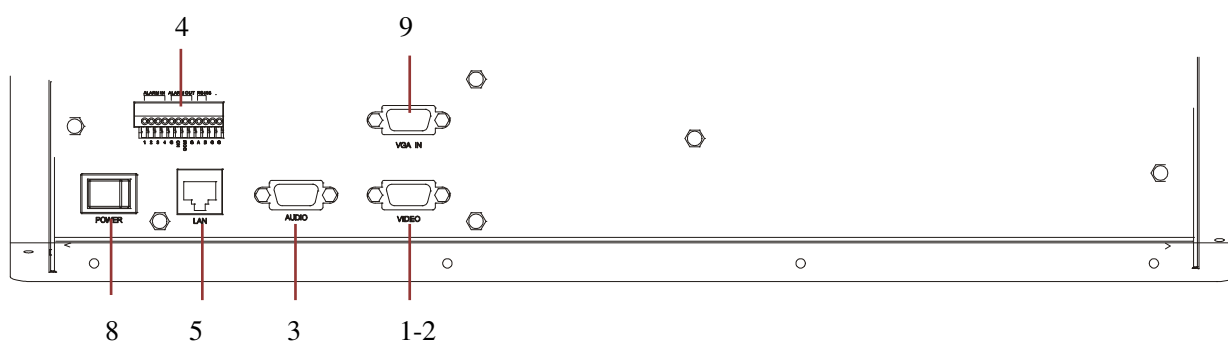
Rewind	◀◀	Rewind video during playback;
Play/Pause	▶/	Opens video search and playback menu. When the playback mode is activated, press this button to play/pause playback.
Stop	■ (Stop)	Stop playback
Fast Forward	▶▶	Fast forward video during playback
REC	●(REC)	Start or Stop manual recording.
Channel Selecting Button(4CH/8CH)		Using these buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 4/*8 depending on the model), or from all Channels simultaneously ().
Channel Selecting Button	Number 0~9 Buttons/,	Using the number buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 8), or use this buttons as numerical buttons to input numbers. Pressing the button "" to switch display modes.
LEDs	Power LED/REC LED/ Net LED	LED lights indicate your connection to the power supply, recording status and net status.

Note: On live view press the button or or numerical button ten times when there is no tool bar, this will switch the main menu between CVBS video output and VGA video output.

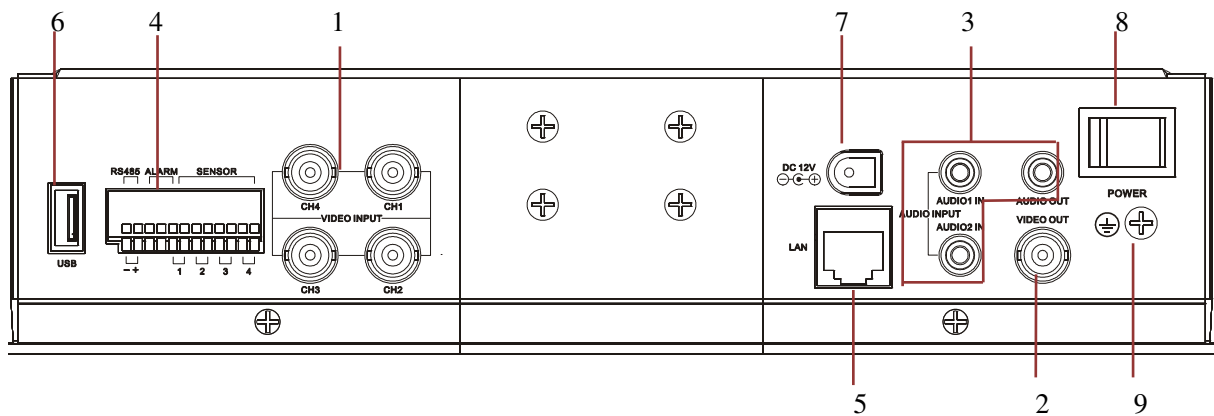
6. Rear Panel(Please take actual machine model as quasi)



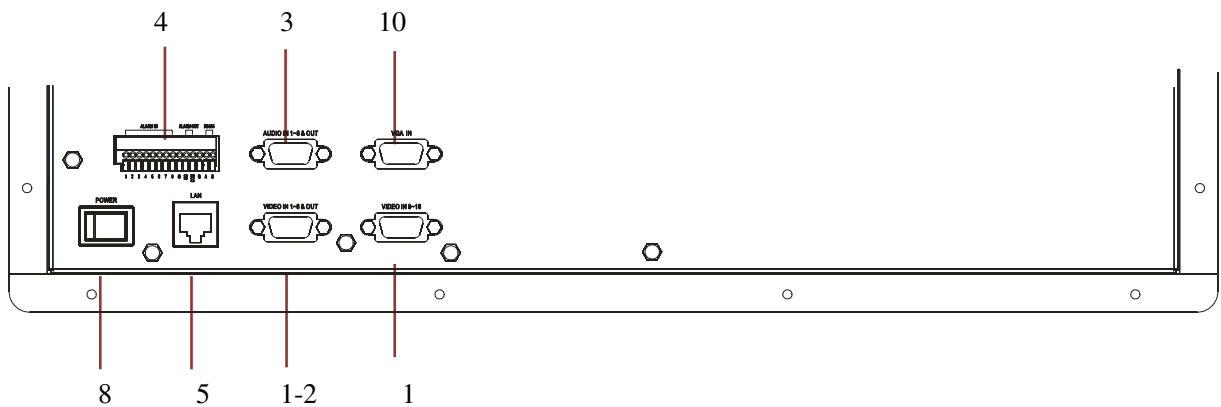
Back Panel of 15"LCD DVR



Back Panel of 8CH 19"LCD DVR



Back Panel of 10"LCD DVR



Back panel of 16CH 19"LCD DVR

1.Video Input Connectors

4 channel video input, BNC (1Vp-p, 75Ω) for 4 CH device, 8 channel video input for 8CH device.

2.Video Output Connector

Video output to display monitor, BNC (1Vp-p, 75Ω)

3.Audio Input / Output Connector

2 channel audio input / 1 output, RCA (2Vp-p, 600Ω) for 10"LCD DVR, 4 channel audio input / 1 output, RCA (2Vp-p, 600Ω) for 4 CH 15"LCD DVR, 8 channel audio input / output, RCA (2Vp-p, 600Ω) for 8 CH device,

4.Alarm Input Connectors (ALARM IN:1CH-4CH)

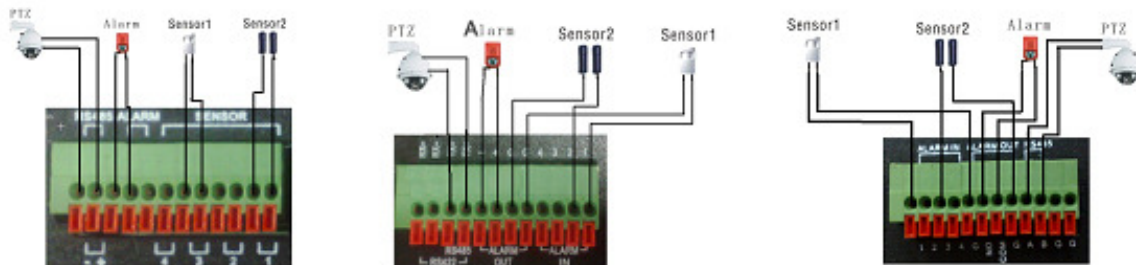
For connecting to external sensor device

Alarm Output Connectors (ALARM OUT; 1CH)

For connecting to external alarm device

RS-422 / RS-485 Connector (RS485 :TX+ (A) , TX- (B))

For connecting PTZ camera control



5.Ethernet Connector

RJ-45 10/100 Base-T Ethernet network

6.USB connectors

Use these USB ports to connect the mouse and backup devices (flash drive, DVD recorder).

7.Power Input Socket (12V DC)

8.Power Switch

9. Ground—Ground the machine if necessary.

Note: If your back panel does not match above, it means that your DVR did not come with that option.

10. VGA Input Connector (only for 19"LCD DVR)

7. Lateral Panel



USB Port (For Backup)

Lateral Panel of 15"LCD DVR and 19"LCD DVR



Lateral Panel of 19"LCD DVR

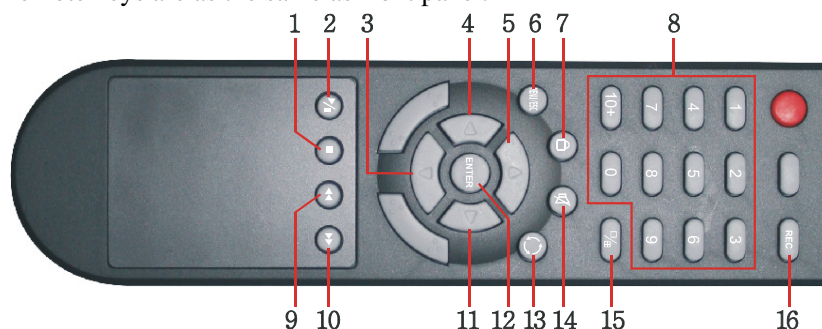
Brief Introduction: 1. HDD box

2. Power jack

3. USB port for mouse connection or to backup device.

8. Remote Controller

The functions of remote keys are as the same as front panel.



1 Stop (■): Stop playback

2 Play/Pause (▶/||): Opens video search and playback menu. When the playback mode is activated, press this button to play/pause playback.

3, 4, 5, 11(▲◀▶▶): Move selected item in menu.

6, Menu (MENU/ESC): Displays/exits the main menu.

7 Lock (🔒): If the password is enabled, press it to logout the system.

8 Numerical Button: Using these buttons, you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 8), or you can use this buttons to input numbers.

9 Rewind (◀◀): Rewind video during playback.

10 Fast Forward (▶▶): Fast forward video during playback

12 ENTER: This button is used as the “enter” key in most circumstances. And on live view press this button to enter into PTZ mode.




13 Spot View (📍): Press to enable auto sequencing,

14 Mute ON/Mute Off (🔊): Turn on or turn off sound.


15 Quad (📺): Press this button to switch display modes. There are 4-CH mode, 6-CH mode, 8-CH mode, 9-CH mode, 16-CH mode. You can use it according to your demand.

16 REC (●): Start or Stop manual recording.

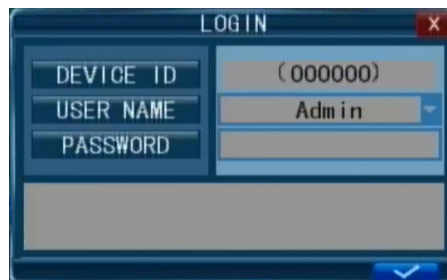
9. Basic Operation

Note: During configuration, press button  to restore to default setting, press button  to save parameter, the parameter will take effect after clicking button .

9.1 Login System




In live view, press the button “/” twice or double-click right key of mouse on live view to display tool bar, it will appear the login window if the password is enabled. You can fill in user name and password to login.

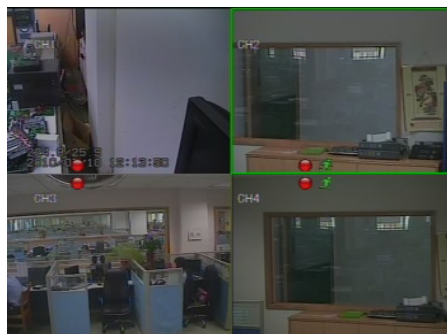
Note: The default password for Admin is “888888”.




9.2 Live View

Displayed on the live screen are the real time images, name and state of each channel. Channel icons indicate the following:


-  Icon indicates that the channel has detected motion in the motion detection mode.
-  Icon indicates that the channel has detected sensor alarm in the alarm mode.
-  Red dot indicates that the channel is running in the mode of recording.

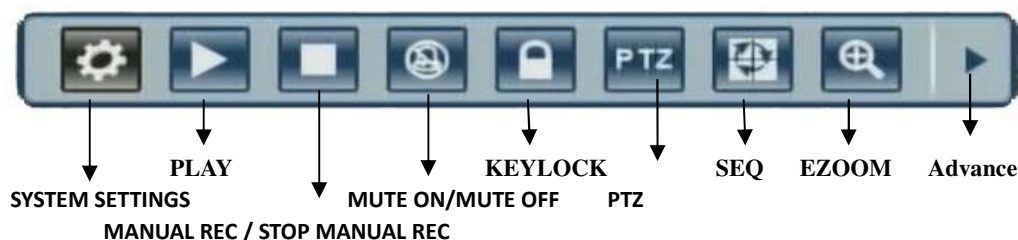


9.3 Status and Tool Bar

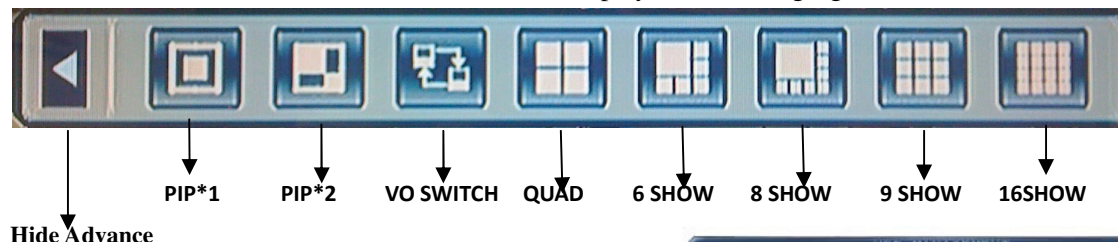
1) In live view, press the button “/” once or click right key of mouse on live view to display status bar, it will appear the status bar as following.



2) In live view, press the button “/” twice or double-click right key of mouse on live view to display tools bar if password is disabled. When password is available, you can see it after login.




Click the “ADVANCE” button and the screen will display the following figure:



9.4 HDD Management

If you have not yet installed a hard disk drive into the device, or the device didn't read the HDD, or a new HDD didn't be formatted, or there is no space of the HDD to



record, it will display an icon “” in the video preview interface. You must format the HDD in the DVR before first using. The steps as follows: System settings > SYSTEM > HDD management > format.

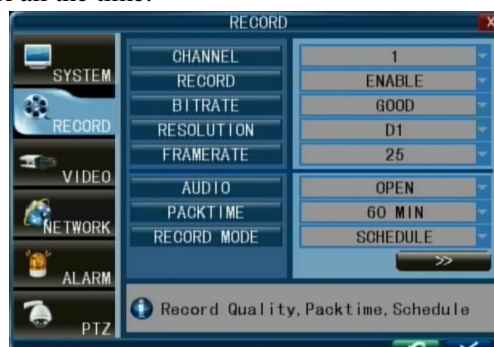
9.5 Record Setting

Click [Tool Bar→ System settings → Record] to enter [Record] menu. You can set quality, resolution, frame rate, pack time and record mode. There are three record modes: Manual Record, Always and Schedule. Always record mode will record with every channel all the time.

Frame Rate: It is possible to adjust each channel frame rate independently. Real-time recording is considered 25 frames per second (fps) for PAL and 30fps for NTSC. Depending on TV system, for 4CH and 8CH the maximum frame rate is either 200 (PAL) or 240 (NTSC) fps in CIF resolution, 100 (PAL)/120(NTSC) fps in HD1 resolution, and 50 (PAL)/60(NTSC) fps in D1 resolution.

Please note that the recording frame rate limit varies depending upon the recording resolution selected. Even though you may set the recording frame rate here, the system will automatically downgrade the recording frame rate if it exceeds machine limitations.

Resolution: The recording resolution has three options: D1、HD1 and CIF resolution. Standard Quality TV is equivalent to D1 quality. The resolution of each channel for recording can be adjusted independently.



9.5.1 Manual Recording


Manual recording is useful for times when you want to immediately record something on screen. To turn on manual recording, click [Tool Bar→ Manual Record] or hit the REC button on the front panel or the remote control. A red button will appear on the down left hand corner. To turn off the manual recording, hit the REC button again.

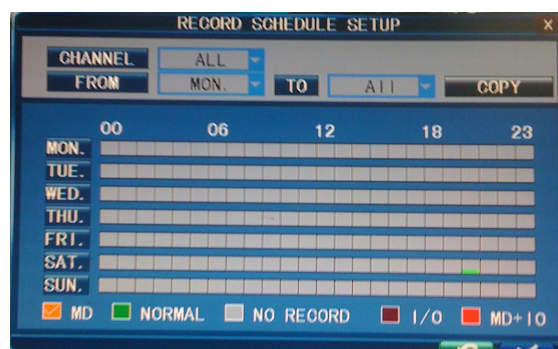
9.5.2 Schedule Recording

It allows you to create a schedule for recording tasks throughout the week, so that only certain selected events are actually recorded on the HDD.

CHANNEL: You can select all channels or just one channel.

There are three modes for recording: ALARM, NORMAL and NO RECORD. Different colors signify different recording modes: Red means alarm record, green means normal record, grounding means no record.

After you complete the schedule you activate it by clicking the  button.



9.6 Video Playback

Click [Tool Bar→ System settings → Play] to enter [Playback] menu.

Method 1: playback by date

Date input: Adjust the checking date and time, and press **【Enter】** to input the number directly to adjust the year, month, date. Next, input the time in the next box, click “play” and then choose playback channel as



shown in left Fig, then click “play”.

Method 2: playback by recording status:

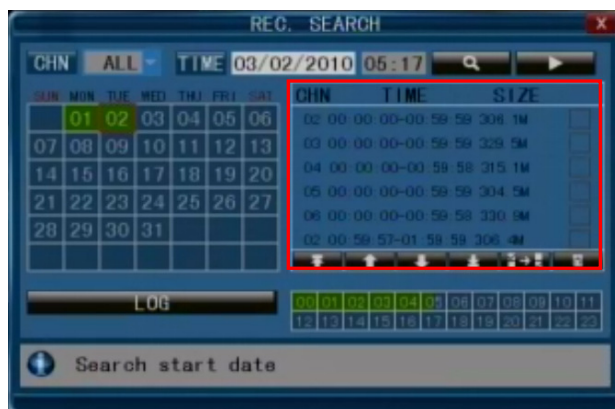
Input the date, click 【search】 and you can see the recording status on this date.

Method 3: playback by file list:

Input the searching date and click “SERACH” to view the recording status. Click an exact day and then click “LISTING” to see the interface of “FILE LISTING”.

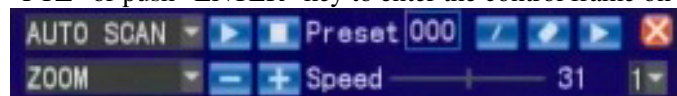
9.7 File Back Up

Click [Tool Bar→ Play → Search] to enter file list. In this interface, you can back up video file. Click [↶], [↷], [↵] and [↴] to switch page, select the video file you want to back up and click [📁] to back up the video file to USB disk.



9.8 PTZ Control—(optional)

Double-click the right mouse button to enter tool bar menu under real-time monitoring frame, and choose “PTZ” or push “ENTER” key to enter the control frame on live view.



Under PTZ control frame press the [⏏] / [⏏] button or right click and an icon “📹” will appear at the top right corner of the screen.

[PTZ Direction Control] Under PTZ control frame, move the mouse to the upper, lower, left and right locations of the current frame, and this time, left click and hold the mouse. Enter the control area of the corresponding location.

In “📹” mode, use the mouse or the [▲] [▼] [◀] [▶] buttons on the remote control front panel to control detection.

[SPEED] Regulate the rotating step length of the PTZ by using the slide bar. This function is mainly for the controlling direction operation. The bigger the value is, the faster the rotational speed is, with values ranging from 0~63.

[IRIS -、IRIS +] Regulate the diaphragm.

[FOCUS -、FOCUS+] Bring objects into focus finely.

[ZOOM -、ZOOM+] Zooms the Lens in and out. Magnification can be changed by using the mouse wheel under the current frame.

Note: You have to configure parameters before control Pan-Tilt-Zoom and you can access PTZ setting by clicking Tool Bar→ System Setting→ PTZ.

9.9 Network Settings

To connect the DVR to the internet, certain settings must be input into the DVR. To access your DVR from the internet, you will need either a Static IP from your internet service provider (ISP) or a router with

Dynamic DNS (DDNS) capability and an account with an online DDNS service. This service is country specific, but in many countries, the manufacturer suggested service is <http://www.dyndns.com>. If the below is not clear, please contact your network administrator for help or consult the full DVR manual on the included CD.

Bring up the network settings menu via [Tool Bar→ System Setting → Network]. The four sub-menus are “network setup”, “DDNS”, “email” and “mobile”.

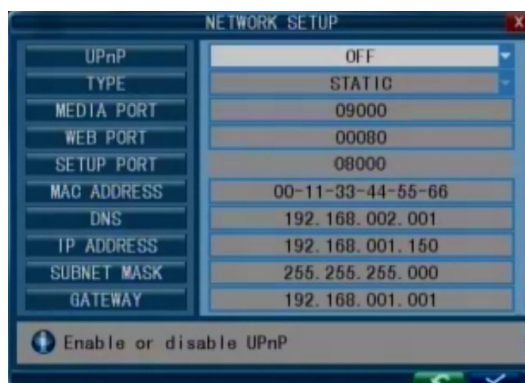
On the menu of “network setup” to set up network type, including Static IP/ DHCP/PPPOE.

Static IP: If this is selected, please type in an IP address, subnet mask and gateway.

DHCP: If this is selected, a DHCP server should be set within the network. A dynamic IP address will be assigned automatically and displayed in the IP Address field.

UPNP: Universal plug and play. If you turn it off, you should manually mapped its port to get mapped IP address; if you turn it on, it will mapped DVR’s ports automatically.

Note: You should turn on UPNP on your router before turning on UPNP on DVR.



MEDIA PORT: Transfers video data between client and device. Default value is 9000.

WEB PORT: Sets up the port of IE browser via HTTP. Default value is 80.

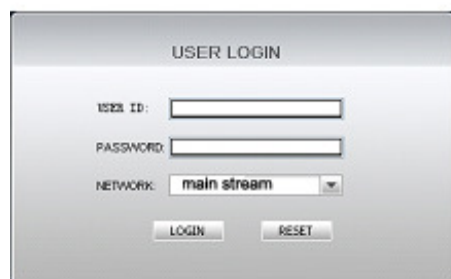
SETUP PORT: This port is fixed and you can’t modify it, the value is 8000.

DNS: Press [Enter] and input numbers for the net mask.

Mobile Port: Default value is 10510.

10. Web Operation

1. Connect the DVR to the internet.
2. Make sure all the ActiveX controls for internet security on your PC are enabled. For I.E. this is through [Tools->Internet Options->Security].
3. After finishing the aforementioned settings, open the IE browser, input <http://192.168.0.X> (192.168.0.X is the setting IP address of the DVR) and confirm. If the http port of DVR setting has been changed (not 80), it’s will be must to add colon + port number (assume that the current port number is P), like <http://192.168.0.X:P>, for correct visit. Then, please click “If your browser does not support the ActiveX to download, please click here”, the network will download and install the control automatically. After connecting to the internet, IE will automatically download the file to PC. After download, an interface will prompt you to login system.



After filling in right user name and password, you can see a monitor interface as picture shows.

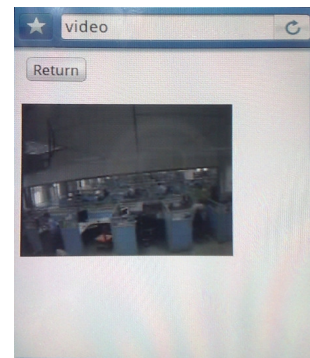
Default user ID is: Admin (with all administrative privileges). Default password is: “888888”.

11. Wap Connection

Note: Make sure the digital video recorder connects to Internet accurately before accessing.

Open Internet Browser on mobile phone and fill in IP address of DVR.

For example: if the IP address of DVR is 192.168.1.157 and its web port is 86, you can fill its address column with <http://192.168.1.157:86/wap.html>, click button ENTER. There will be a login interface. After login and configuring parameters, the interface will show as right hand.

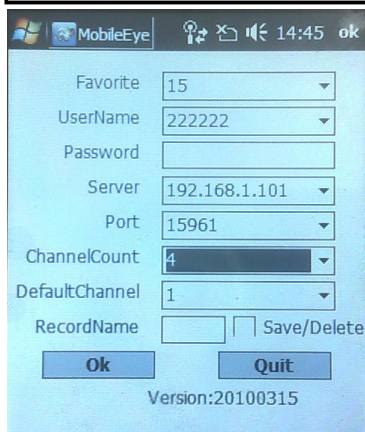


12. Mobile Phone Support

This DVR device can transmit live feed from the CCTV cameras to your mobile phone, so that you can have 'on the go' access to your surveillance system from virtually anywhere. To view, you must install a mobile operating system specific program into your mobile. The mobile programs are located on the included CD, or downloaded via iTunes for the iPhone. In iTunes, please search for "MobileEye" from Longterm. Please see the instruction manual for your mobile to install the program. Currently, there are a limited number of phones that are supported: Windows CE Mobile, Nokia Symbian S60 3rd and 5th Edition OS, Google Android, BlackBerry OS 4.x+ and Apple iPhone.

Note:

1. Prior to using this feature, you should apply for an Internet connection service for your mobile phone, such as 3G or 2.5G. Please contact your mobile service provider for details.
2. You can only watch one live feed channel at a time with your mobile phone. Split mode and playback of recorded files is not available at the moment.



In the following example, we use the Windows CE mobile. The usage of other mobile programs is substantially similar. For more detailed instruction, please view full user manual on included CD.

From the installation CD, install file "MobileEye.cab" onto your Windows Mobile phone. See your phone user manual for more details on installing this application.

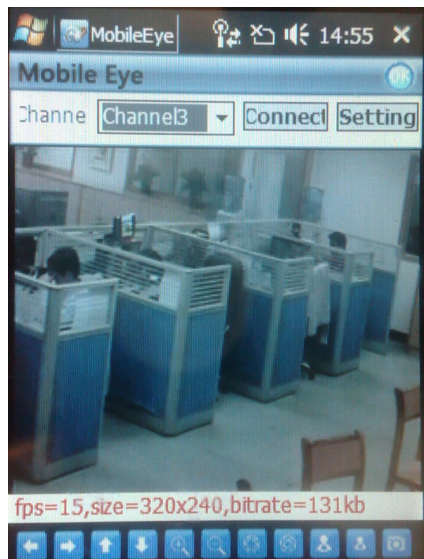
Find and execute program "MobileEye". Click the **Setting** button to setup the IP address for your DVR.

In the left screen, input the User Name, Password, Server (IP address for your DVR) and Port (default 10510).

Next, choose the channel Count for streaming data from the drop-down menu and choose the Default Channel when connecting. Choose a Record Name for your favorite files. Click OK to save the settings. To connect to the system and start watching the live feed from your CCTV cameras, click on the **Connect** button.

To choose the camera, use the **Channel** drop-down menu.

To modify settings, press the **Setting** button.



On-screen data will provide information about frame rate (fps), resolution (size) and bit rate (Kbps) of current channel.

The menu bar contains the following controls.



Directional buttons for controlling the direction of the PTZ camera view



Zoom in / out.



Iris.



Focus.



Snapshot.

In all cases, for more details, please refer to the electronic user's manual on the CD.
Thank you!

MC-658(A-2)